Aviation Summer Weather Dashboard

Quick User's Guide

http://testbed.aviationweather.gov/summerdashboard/

Dashboard Overview

- Provides Day 1 and Day 2 forecasts for likelihood of convection
- Forecasts for both terminals and en-route
- Currently ZNY and Tier-1 ARTCCs
- Utilizes a web display similar to the Aviation Winter Weather Dashboard

Convective Forecast

- Short-Range Ensemble Forecast (SREF)
- Forecast Variables
  - Calibrated Probability of Thunder
  - Ensemble Mean Convective Cloud Top (CCT)
- Forecast Period
  - Hourly forecast periods through F15
  - Three-hourly periods out to F51

Convective Forecast

- Colors indicate probability of thunder
  - Different probabilistic thresholds for hourly and 3-hourly forecast periods
- Convective Cloud Top Height
  - Flight level shown if thunder probability reaches criteria for Nominal or higher

Prob	Hourly Thun	3-Hourly Thun
≥ 10%	Nominal	
≥ 20%	Slight	Nominal
≥ 40%	Moderate	Slight
≥ 60%	High	Moderate
≥ 80%	High	High

Aviation Summer Weather Dashboard (Experimental)

Product Description Document

Current Time: 13:57:30 UTC Tue 30 Apr 2013

<< Previous SREF Run	Viewing Old SREF Run (View Latest)	Next SREF Run >>
0300 UTC Mon 29 Apr 2013	**0900 UTC Mon 29 Apr 2013**	1500 UTC Mon 29 Apr 2013
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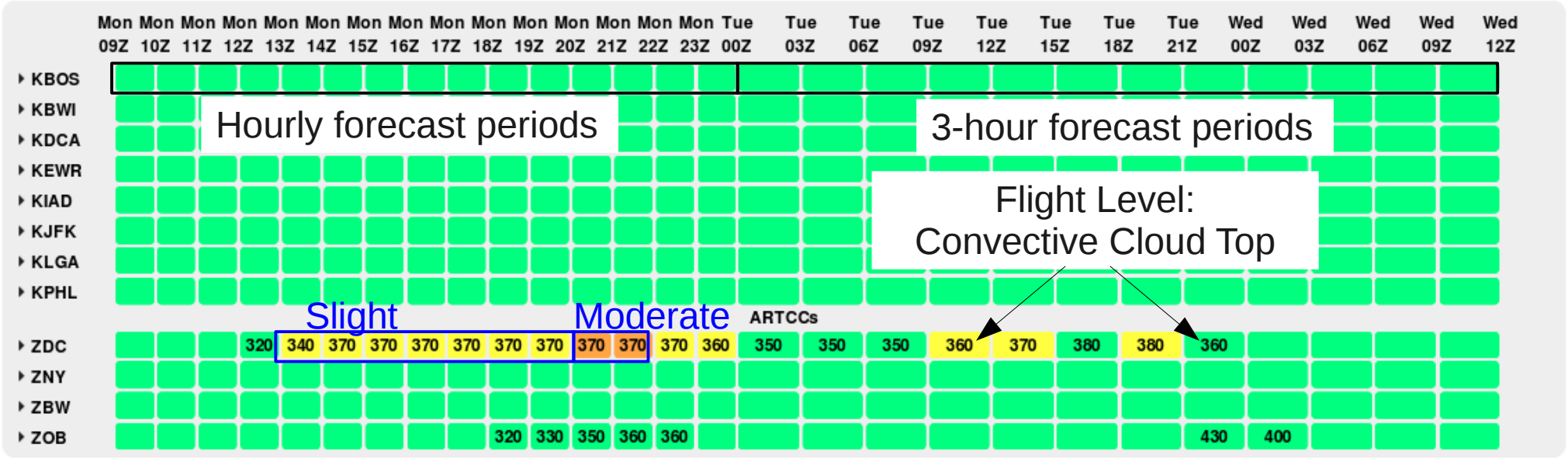

Impact Category:	Nominal	Slight	Moderate	High

The Aviation Summer Weather Dashboard is an experimental product hosted at the Aviation Weather Testbed, located at the NOAA Aviation Weather Center.
Its purpose is to provide a decision support tool to alert operational meteorologists and air traffic managers to potential summer weather impacts at major airports.

View Archived SREF Run: 0900 UTC Mon 29 Apr 2013

Collaborative Convective Forecast Product	Extended Convective Forecast Product	CWSUs ZNY ZBW ZDC ZOB	SPC Short-Range Ensemble Products	SPC Short-Range Ensemble Plume Charts	AWC Terminal Area Forecasts

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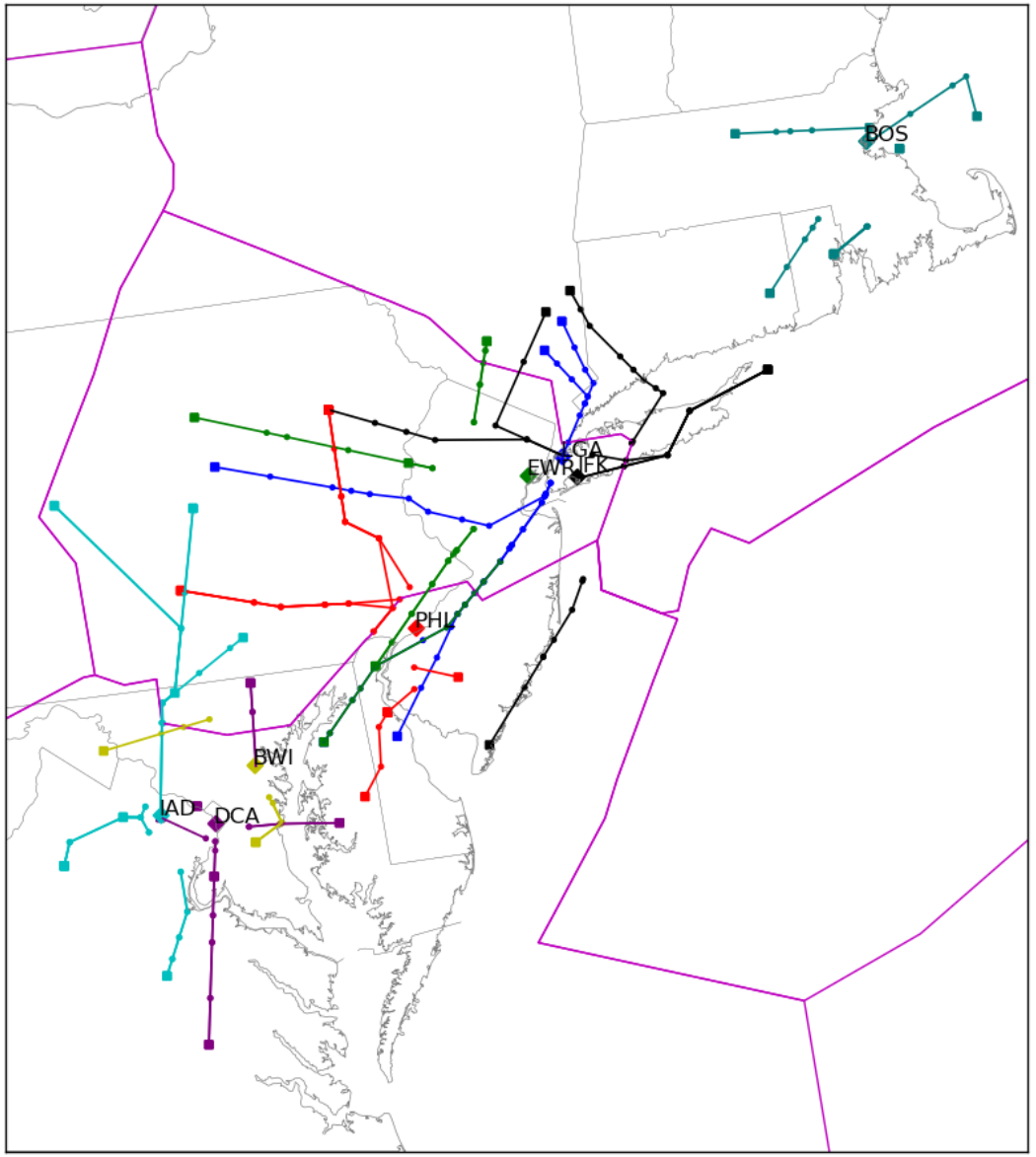
Terminals and STARs



STARs are color-coded by terminal

- Terminals
  - SREF grid points 10nm within location of terminal
- STARs
  - SREF grid points within 10nm on either side of the arrival center line

Aviation Summer Weather Dashboard (Experimental)

Product Description Document

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ZDC				320	340	370	370	370	370	370	370	370	370	370	360	350	350	350	360	370	380	380	360					
ZNY																												
ZBW																												
ZOB										320	330	350	360	360									430	400				

Select arrow to view STARs for this terminal

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Current Time: 13:57:42 UTC Tue 30 Apr 2013

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IRONS4																												Map
NUMMY1																												Map
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▸ ZBW																												
▸ ZOB										320	330	350	360	360									430	400				

Select to view map for this STAR

Impact Category:	Nominal	Slight	Moderate	High

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View Archived SREF Run: 0900 UTC Mon 29 Apr 2013

Collaborative Convective	Extended Convective	CWSUs	SPC Short-Range	SPC Short-Range	AWC Terminal Area

Aviation Summer Weather Dashboard (Experimental)

Product Description Document

Current Time: 13:57:52 UTC Tue 30 Apr 2013

<< Previous SREF Run
0300 UTC Mon 29 Apr 2013
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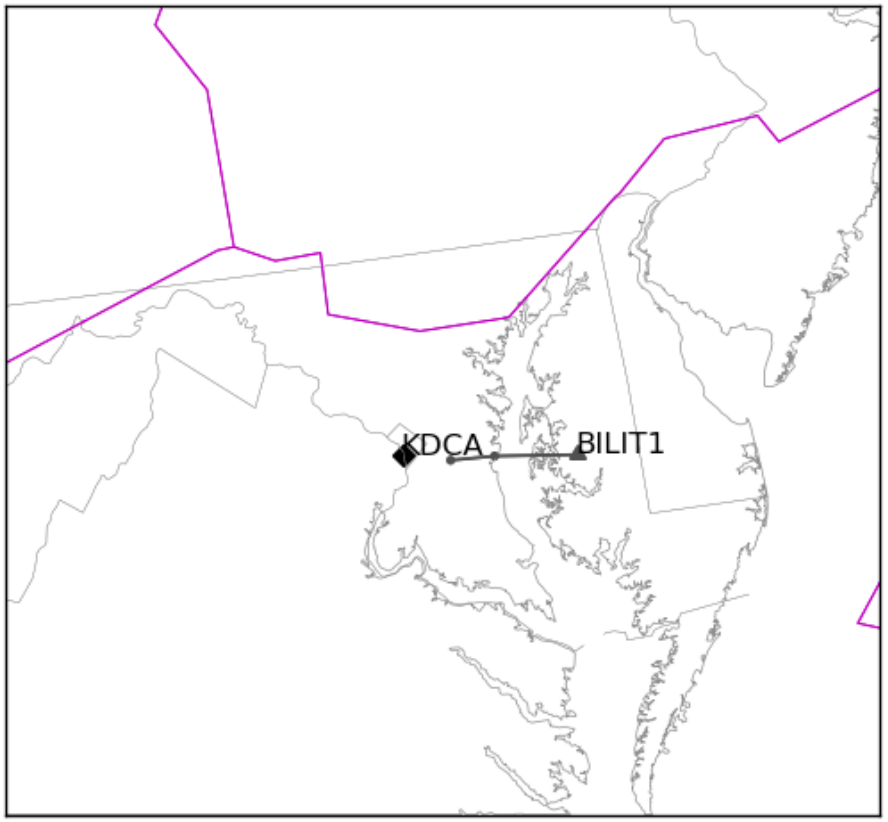

The Aviation Summer Weather Das
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Collaborative Convective
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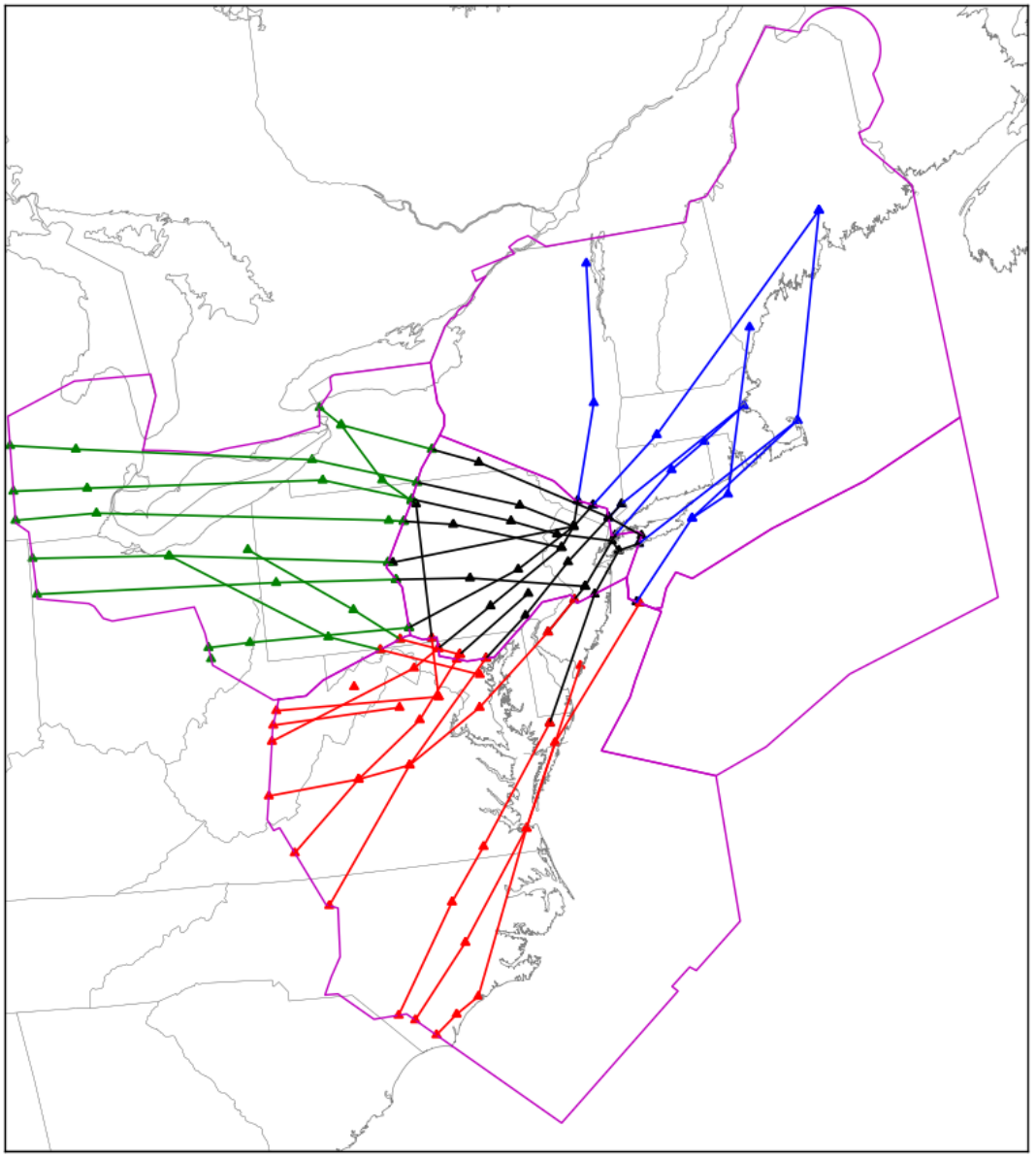
Range
AWC Terminal Area

ARTCCs and Airways



Airways are color-coded by ARTCC

- Airways
  - SREF grid points 10nm on either side of airway center line
- ARTCC
  - Maximum thunder probability and highest convective cloud tops from all airways within that ARTCC

Aviation Summer Weather Dashboard (Experimental)

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<< Previous SREF Run	Viewing Old SREF Run (View Latest)	Next SREF Run >>
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ZNY																												
ZBW																												
ZOB										320	330	350	360	360									430	400				

Select arrow to view airways for this ARTCC

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J75									330	350	360	370	370	360	350							370						Map
J79				300	340	370	370	370	370	360	370	370	370	370	360	330				370	380	380	360					Map
J121						360	370	370	370	370	360	370	370	360	350	330		320		370	370	370	360					Map
J134									240	260	290	290	280	250														Map
J149									240	270	290	290	280	250														Map
J174				320	340	350	350	360	360	370	370	370	360	360	340	350	350	350	360	370	370	370	360					Map
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▸ ZNY																												
▸ ZBW																												
▸ ZOB										320	330	350	360	360									430	400				

Select to view map for this airway

Impact Category:	Nominal	Slight	Moderate	High

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J174				320	340	350	350	36															370	360				Map
J211																												Map
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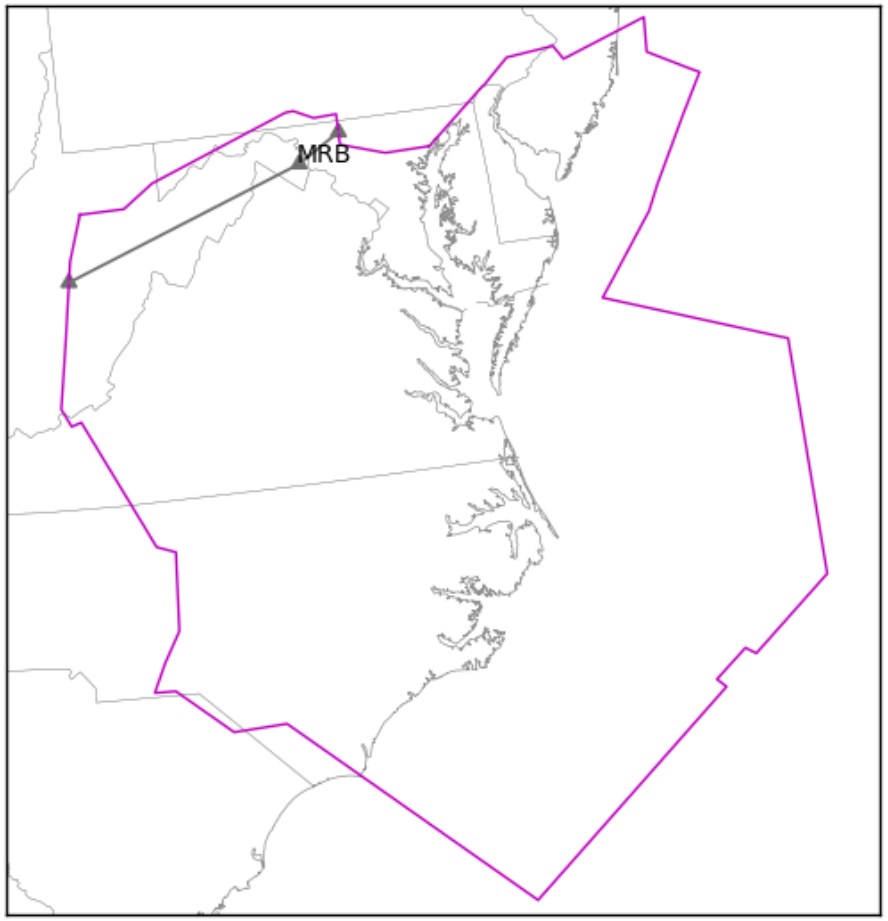
ZDC: J6



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